

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.

Application Serial Number: 10/821,001  
Source: I FWO  
Date Processed by STIC: 10/21/04

# ***ENTERED***



IFWO

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/821,001

DATE: 10/21/2004

TIME: 11:25:50

Input Set : A:\26-003710US SEQ LISTING.TXT

Output Set: N:\CRF4\10212004\J821001.raw

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4 <110> APPLICANT: Palese, Peter
5   Garcia-Sastre, Adolfo
7 <120> TITLE OF INVENTION: RECOMBINANT NEGATIVE STRAND RNA VIRUS
8   EXPRESSION SYSTEMS AND VACCINES
11 <130> FILE REFERENCE: 7682-048
C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/821,001
C--> 14 <141> CURRENT FILING DATE: 2004-04-07
16 <150> PRIOR APPLICATION NUMBER: 09/106,377
17 <151> PRIOR FILING DATE: 1998-06-29
19 <150> PRIOR APPLICATION NUMBER: 08/252,508
20 <151> PRIOR FILING DATE: 1994-06-01
22 <160> NUMBER OF SEQ ID NOS: 63
24 <170> SOFTWARE: FastSEQ for Windows Version 4.0
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 21
28 <212> TYPE: DNA
29 <213> ORGANISM: Artificial Sequence
31 <220> FEATURE:
32 <223> OTHER INFORMATION: Primer for rescue of the mutant NA gene into virus particles
34 <400> SEQUENCE: 1
35 tacgaggaaa tgttcctgtt a                                21
37 <210> SEQ ID NO: 2
38 <211> LENGTH: 19
39 <212> TYPE: PRT
40 <213> ORGANISM: Influenza virus
42 <400> SEQUENCE: 2
43 Gln Leu Val Trp Met Ala Cys Asn Ser Ala Ala Phe Glu Asp Leu Arg
44 1           5           10           15
45 Val Leu Ser
49 <210> SEQ ID NO: 3
50 <211> LENGTH: 16
51 <212> TYPE: PRT
52 <213> ORGANISM: Influenza virus
54 <220> FEATURE:
55 <223> OTHER INFORMATION: epitope within the NP protein
57 <400> SEQUENCE: 3
58 Thr Tyr Gln Arg Thr Arg Gln Leu Val Arg Leu Thr Gly Met Asp Pro
59 1           5           10           15
62 <210> SEQ ID NO: 4
63 <211> LENGTH: 95
64 <212> TYPE: DNA
65 <213> ORGANISM: Artificial Sequence
67 <220> FEATURE:

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68 <223> OTHER INFORMATION: Primer for construction of plasmid pV-wt
70 <400> SEQUENCE: 4
71 gaagcttaat acgactcact ataagtagaa acaagggtgt tttttcatat catttaaact 60
72 tcaccctgct ttgctgaat tcattcttct gcagg                                     95
74 <210> SEQ ID NO: 5
75 <211> LENGTH: 95
76 <212> TYPE: DNA
77 <213> ORGANISM: Artificial Sequence
79 <220> FEATURE:
80 <223> OTHER INFORMATION: Primer for construction of plasmid pM-wt
82 <400> SEQUENCE: 5
83 gaagcttaat acgactcact ataagcaaaa gcagggtgaa gtttaaataa tatgaaaaaa 60
84 cacccttggt tctactgaat tcattcttct gcagg                                     95
86 <210> SEQ ID NO: 6
87 <211> LENGTH: 68
88 <212> TYPE: DNA
89 <213> ORGANISM: Artificial Sequence
91 <220> FEATURE:
92 <223> OTHER INFORMATION: Primer for construction of plasmid pV-d5'
94 <400> SEQUENCE: 6
95 agcttaatac gactcactat aagatctatt aaacttcacc ctgcttttgc tgaattcatt 60
96 cttctgca                                                                68
98 <210> SEQ ID NO: 7
99 <211> LENGTH: 60
100 <212> TYPE: DNA
101 <213> ORGANISM: Artificial Sequence
103 <220> FEATURE:
104 <223> OTHER INFORMATION: Primer for construction of plasmid pV-d5'
106 <400> SEQUENCE: 7
107 gaagaatgaa ttcagcaaaa gcagggtgaa gtttaataa tcttatagtg agtcgtatta 60
110 <210> SEQ ID NO: 8
111 <211> LENGTH: 42
112 <212> TYPE: DNA
113 <213> ORGANISM: Artificial Sequence
115 <220> FEATURE:
116 <223> OTHER INFORMATION: Primer for construction of plasmid pHgaNS
118 <400> SEQUENCE: 8
119 ccgaattctt aatacgactc actataagta gaaacaaggg tg                                     42
121 <210> SEQ ID NO: 9
122 <211> LENGTH: 30
123 <212> TYPE: DNA
124 <213> ORGANISM: Artificial Sequence
126 <220> FEATURE:
127 <223> OTHER INFORMATION: Primer for construction of plasmid pHgaNS
129 <400> SEQUENCE: 9
130 cctctagacg ctcgagagca aaagcaggtg                                     30
132 <210> SEQ ID NO: 10
133 <211> LENGTH: 15
134 <212> TYPE: RNA

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135 <213> ORGANISM: Artificial Sequence  
137 <220> FEATURE:  
138 <223> OTHER INFORMATION: Primer for construction of plasmid pHgaNS  
140 <400> SEQUENCE: 10  
141 caccucgcuu uugcu 15  
143 <210> SEQ ID NO: 11  
144 <211> LENGTH: 15  
145 <212> TYPE: RNA  
146 <213> ORGANISM: Artificial Sequence  
148 <220> FEATURE:  
149 <223> OTHER INFORMATION: Primer for generating point mutations in promoter sequence  
151 <400> SEQUENCE: 11  
152 caccucgcuu uuacu 15  
154 <210> SEQ ID NO: 12  
155 <211> LENGTH: 15  
156 <212> TYPE: RNA  
157 <213> ORGANISM: Artificial Sequence  
159 <220> FEATURE:  
160 <223> OTHER INFORMATION: Primer for generating point mutations in promoter sequence  
162 <400> SEQUENCE: 12  
163 caccucgcuu cugcu 15  
165 <210> SEQ ID NO: 13  
166 <211> LENGTH: 15  
167 <212> TYPE: RNA  
168 <213> ORGANISM: Artificial Sequence  
170 <220> FEATURE:  
171 <223> OTHER INFORMATION: Primer for generating point mutations in promoter sequence  
173 <400> SEQUENCE: 13  
174 caccuguuu cugcu 15  
176 <210> SEQ ID NO: 14  
177 <211> LENGTH: 16  
178 <212> TYPE: RNA  
179 <213> ORGANISM: Artificial Sequence  
181 <220> FEATURE:  
182 <223> OTHER INFORMATION: Primer for generating point mutations in promoter sequence  
184 <400> SEQUENCE: 14  
185 caccuugcu uuugcu 16  
187 <210> SEQ ID NO: 15  
188 <211> LENGTH: 15  
189 <212> TYPE: RNA  
190 <213> ORGANISM: Artificial Sequence  
192 <220> FEATURE:  
193 <223> OTHER INFORMATION: Primer for generating point mutations in promoter sequence  
195 <400> SEQUENCE: 15  
196 caccuguuu uuacu 15  
198 <210> SEQ ID NO: 16  
199 <211> LENGTH: 15  
200 <212> TYPE: RNA  
201 <213> ORGANISM: Artificial Sequence

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203 <220> FEATURE:
204 <223> OTHER INFORMATION: Primer for generating point mutations in promoter sequence
206 <400> SEQUENCE: 16
207 caccuguuu uugcu 15
209 <210> SEQ ID NO: 17
210 <211> LENGTH: 16
211 <212> TYPE: RNA
212 <213> ORGANISM: Artificial Sequence
214 <220> FEATURE:
215 <223> OTHER INFORMATION: Primer for generating point mutations in promoter sequence
217 <400> SEQUENCE: 17
218 caccuugcu uuacu 16
220 <210> SEQ ID NO: 18
221 <211> LENGTH: 16
222 <212> TYPE: RNA
223 <213> ORGANISM: Artificial Sequence
225 <220> FEATURE:
226 <223> OTHER INFORMATION: Primer for generating point mutations in promoter sequence
228 <400> SEQUENCE: 18
229 caccuuguu uuacu 16
231 <210> SEQ ID NO: 19
232 <211> LENGTH: 16
233 <212> TYPE: RNA
234 <213> ORGANISM: Artificial Sequence
236 <220> FEATURE:
237 <223> OTHER INFORMATION: Primer for generating point mutations in promoter sequence
239 <400> SEQUENCE: 19
240 caccuuguu ucuacu 16
242 <210> SEQ ID NO: 20
243 <211> LENGTH: 96
244 <212> TYPE: DNA
245 <213> ORGANISM: Artificial Sequence
247 <220> FEATURE:
248 <223> OTHER INFORMATION: Primer
250 <400> SEQUENCE: 20
251 ctagacgccc tgcagcaaaa gcagggtgac aaagacataa tggagaaaaa aatcactggg 60
252 tataccaccg ttgatataatc ccaatcgcat cgtaaa 96
254 <210> SEQ ID NO: 21
255 <211> LENGTH: 96
256 <212> TYPE: DNA
257 <213> ORGANISM: Artificial Sequence
259 <220> FEATURE:
260 <223> OTHER INFORMATION: Primer for generating flanking sequences of NS RNA to fuse
with the
261 coding sequence of the CAT gene
263 <400> SEQUENCE: 21
264 gttcttttacg atgcgattgg gatatatcaa cggtgggtata ccagtgatt tttttctcca 60
265 ttatgtcttt gtcaccctgc ttttgctgca gggcgt 96
267 <210> SEQ ID NO: 22
268 <211> LENGTH: 34

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269 <212> TYPE: DNA

270 <213> ORGANISM: Artificial Sequence

272 <220> FEATURE:

273 <223> OTHER INFORMATION: Primer for generating flanking sequences of NS RNA to fuse  
with the

274 coding sequence of the CAT gene

276 <400> SEQUENCE: 22

277 actgcgatga gtggcagggc ggggcgtaat agat 34

279 <210> SEQ ID NO: 23

280 <211> LENGTH: 38

281 <212> TYPE: DNA

282 <213> ORGANISM: Artificial Sequence

284 <220> FEATURE:

285 <223> OTHER INFORMATION: Primer for construction of plasmid pIVACAT1

287 <400> SEQUENCE: 23

288 ctagatctat tacgccccgc cctgccactc atcgcagt 38

290 <210> SEQ ID NO: 24

291 <211> LENGTH: 34

292 <212> TYPE: DNA

293 <213> ORGANISM: Artificial Sequence

295 <220> FEATURE:

296 <223> OTHER INFORMATION: Primer

298 <400> SEQUENCE: 24

299 actgcgatga gtggcagggc ggggcgtaat agat 34

301 <210> SEQ ID NO: 25

302 <211> LENGTH: 38

303 <212> TYPE: DNA

304 <213> ORGANISM: Artificial Sequence

306 <220> FEATURE:

307 <223> OTHER INFORMATION: Primer for generating flanking sequences of NS RNA to fuse  
with the

308 coding sequence of the CAT gene

310 <400> SEQUENCE: 25

311 ctagatctat tacgccccgc cctgccactc atcgcagt 38

313 <210> SEQ ID NO: 26

314 <211> LENGTH: 97

315 <212> TYPE: DNA

316 <213> ORGANISM: Artificial Sequence

318 <220> FEATURE:

319 <223> OTHER INFORMATION: Primer for construction of plasmid pIVACAT1

321 <400> SEQUENCE: 26

322 ctagacgccc tgcagcaaaa gcagggtgac aaagacataa tggagaaaaa aaatcactgg 60

323 gtataccacc gttgatatat cccaatcgca tcgtaaa 97

325 <210> SEQ ID NO: 27

326 <211> LENGTH: 96

327 <212> TYPE: DNA

328 <213> ORGANISM: Artificial Sequence

330 <220> FEATURE:

331 <223> OTHER INFORMATION: Primer for construction of plasmid pIVACAT1

333 <400> SEQUENCE: 27

334 gttcttttacg atgcgattgg gatatatcaa cggtggtata cccagtgatt tttttctcca 60

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/821,001

DATE: 10/21/2004

TIME: 11:25:51

Input Set : A:\26-003710US SEQ LISTING.TXT

Output Set: N:\CRF4\10212004\J821001.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date